# STIC-ILL

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From: Sent: Holleran, Anne

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Please send me copies of the following:

- 1. Chien, J. et al. Mol. and Cell. Endocrinology (2001) 181(1-2): 69-79
- Chien, J. et al. Int. J. of Cancer (2001) 91(1): 46-54
- 3. Chien, J. et al. Oncogene (1999) 18(22): 3376-3382
- 4. Wong, E.C.C. et al. Proc. Amer. Assoc. for Cancer Res. (1997) 38: 288
- 5. Rayford, W. et al. Prostate (1997) 30(3): 160-166
- 6. Xue-Zhang, Q. et al. Endocrine (1995) 3(6): 445-451
- 7. Shah, G.V. et al. Endocrinology (1994) 134(2): 596-602
- 8. Rayford, W. et al. J. of Urology (1994) 151(5 suppl): 490A
- 9. Rayford, W.et al. J. of Urology (1993) 149(4 suppl): 479A
- 10. Shah, G.V. et al. Prostate (N.Y.) (1992) 21(2): 87-97
- 11. Sagol, O. et al. Annals of Medical Sciences (1999) 8(1): 14-21
- 12. Sussenot, O. et al. Prostate (1998) 36(suppl. 8): 43-51
- 13. Hanna, F.W. et al. J. Endocrinol. (1997) 152(2): 275-281
- 14. Sim, S.J. et al. Annals of Clinical and Laboratory Science (1996) 26(6): 487-495

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- 15. Watanabe, K. et al. Fukushim J. Medical Science (1995) 41(2): 141-152
- 16. Esik, O. et al. European J. Gynaecological Oncology (1994) 15(3): 211-216

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## Accepted

#### 1049

PERINEAL COMPRESSION OF THE CORPUS SPONGIOSUM OF THE BULBAR URETHRA: AN OPERATION FOR POST RADICAL PROSTATECTOMY URINARY INCONTINENCE. Thomas A. Stamey, Stanford, CA (Presentation by Dr. Starney)

Many excellent surgeons report a 5% rate of urinary incontinence after radical prostatectomy. Urinary incontinence is of greater concern to most patients than is erectile impotency since organic function is always preserved. Artificial sphincters with circumferential compression of the bulbar urethra are often unsatisfactory because of infection, pressure erosion of the wrethra and incomplete control of incontinence.

Based on our success with endoscopic suspension of the vesical neek in women with stress urinary incontinence, we have designed and tested a similar opelation for men with post radical prostatectomy incontinence. Two broad bols ers of 6 mm diameter Dacron®, covered by a sleeve of Gore-Tex® to prevent stretching of the Dacron, are placed transversely across the bulbospongiosus muscle just distal to the superfidal transversus perinci muscle. Both bolsters (3.5 cm long) are prepared prior to surgery long Prolene #1 sutures which anchor each end of each bolster. Four suprapubic needle passes (two on each side) of an extra long modified Stamey needle with two holes at the distal end (Greenwald Surg. Co., USA) are required to transfer the eight perineal sutures to the abdominal rectus fascia. Cystoscopy is required after each needle passage to insure absence of bladder or urethral perforation. Intraoperative perineal pressures of the spongy urethra must be about 100 cm of water for complete postoperative continence. A Stamey suprapubic tube (Cook Urol.) is left in place until all residual urine has dissipated, a process that can take as long as three months. All patients with their intraoperative and postoperative bulbar urethral pressures will be presented. The overall results are excellent although the follow-up remains short.

#### 1050

MUSCARINIC RECEPTORS MAY ACT AS AGONIST-DEPENDENT ONCOGENES IN HUMAN PROSTATE CANCER, Walter Rayford, Ginsh V. Shah, and Mark J. Noble. KC. KS (Presented by Dr. Rayford) Muscargnic receptors (MR) are primarily expressed in neurons and

fully-differentiated cells. However, recent studies indicate these receptors can induce transformation when expressed in immature cells with proliferative capacity. MR are present in the human prostate and participate in the secretory function of the epithelium. Since the neuroendocrine (NE) cell population is significantly increased in prostate cancer (PC), it is likely that MR, in concert with other NE factors, may play a role in tumor progression. To test a possible role for MR in proliferation of PC, we studied the effects of carbachol on DNA synthesis in LinCaP cells. We also rested effects of carbachol on cytoplasmic Ca2- transients.

Initially, effects of carbachol and other agents on the rate of 3Hthymidine incorporation or bromo deoxyundine labeling were examined in cultured LnCaP cells. The cell proliferation rate was slowed by incubation in low-serum medium followed by a second in serum-free medium. Next, cells received various doses of carbachol ± atropine for 24 h. 3 Hthymidine was added 4 hours prior to termination, and incorporated <sup>3</sup>Hthymidine was quantified. In some experiments, LnCaP cells were preincubated with pertussis toxin (PTx) for 6 hours prior to addition of agonists. In a second group of experiments, effects of carbachol on cytoplasmic Ca2- transients were examined. Cultured LnCaP cells were loaded with Indo-I AM ester and ratio fluorescence measurements were made using 4 channel video fluorescence microscopy. The cells were excited by a xenon lamp and fluorescent images at 405 and 475 nm recorded on invensified CCD cameras after splitting the signal with dichroic mirrors. The 405 nm /475 nm fluorescence ratios were calculated as a function of time and (Ca<sup>2</sup>-); determined. Carbachol (0.1-10 nM) induced a dose-dependent increase in 3H-thymidine uptake. This was blocked by atropine implying the carbachol-induced increase was caused by activation of MR. PTx pre-treatment of LnCaP cells prevented this effect Carbachol also induced a large increase in cytoplasmic Ca2-transients of LnCaP cells. When considered together our results suggest carbachol-induced proliferation of LnCaP cells may be mediated through Gi-proteins and raise a possibility that Gi-modiated mechanisms may play an important role in proliferation of prostate cancer.

#### 1051

ALTERED EXTRACELLULAR MATRICES DERIVED FROM BONE PIDROBLASTS INFLUENCE ANDROGEN RESPONSIVE GENES IN OVERLYING HEMAN PROSTATE CANCER CELLS. Michael H. Kape, Wei-Ping Shu, Jeffrey N., Gerdon, Michael J. Droller, and Brian C.-S. Liu, New York, NY (Presentation to be broad as the Kapet.) to he made by Dr. Kanel

The prostatic epithelium, whether benign or malignant, resides in a complex fronment. Recent evidence suggests that these specific alterations in gents expression may be related to coll-cell interactions and the influence of the underlying extracellular matrix (ECM). To investigate the hypothesis that ECM may regulate prestate cell behavior and androgen responsive penes, we have isolated and identified the ECM and its components

and amongen respirate penel, we have storted 100 sentilized the ECM and its components from normal bone fibroblasts that were grown in the presence of 10 nM dihydrocestosterone (DHT).

Using Western blot analytes, we observed that the DHT treated bone fibroblasts expressed greater type IV collagen than the unpressed bone fibroblasts. Furthermore, DHT treated bone fibroblasts have a decrease in laminia and fibronectin when compared with the untreated bons fibroblasts.

Intracted bone fibroblasts.

Human protects cancer LNCaP cells were grown on ECM derived from universited and DHT treated bone (fibroblast cells in the absence of exogenests DHT, and the expression of programs specific strigen (PSA) was determined. We observed that PSA was up-regulated (more than 5-fold) when the LNCaP cells were grown on the ECM derived from DHT treated bone fibroblasts even in the absence of exogenous DHT. The expression of PSA was que op-regulated when the LNCaP cells were grown on ECM derived from universide bone fibroblasts, which separated the cells from the ECM derived from DHT treated bone fibroblasts, no increase in PSA expression and the expression of the ECM derived from DHT treated bone fibroblasts, no increase in PSA expression was described. expression was desce

expression was descreed.

To determine the mechanism in which the ECM may regulate PSA expression in the LNCaP cells the expression of addrogen receptors on the LNCaP cells was determined. Using reverse transcription polymerase chain resection (RT-PCR) and Western blot analyses, we showed that when the LNCaP cells were grown on plantic culture dirther in the presence of 10 nM DHT, an increase in androgen receptor proteins was observed. This was followed by a down-regulation of the androgen receptor message. When the LNCaP cells were grown on ECM of untreated bose fibroblasts, no detectable increase in androgen receptor proteins was at the same level of expression as LNCAP cells grown on plantic culture dishes without the presence of DHT. However, when the LNCaP cells were grown on ECM derived from DHT treated bone fibroblasts, an upregulation of androgen receptor proteins was demonstrated on Western blot, and the androgen receptor mRNA was shown to be down-regulated when assayed by RT-PCR.

When the LNCaP cells were grown on TransWell (Been, which separated the cells from DHT treated bone from DHT treated bone fibroblasts, no increase in androgen receptor proteins was down-regulation of androgen receptor mRNA was allowed. Parthermore, no down-regulation of androgen receptor mRNA was

the ECM certised from URT treated bone infrioducts, no increase in analogue receptor proteins was observed. Pathermore, no down-regulation of androgen receptor mRNA was detected when the LNCaP cells were grown on TransWell filters.

The above results suggest that Diff has both a direct and an indirect offset on LNCaP cells and may act via the extracellular matrix components. These results may also partially explain the climical observation that bone provider a fertile soil for prostate cancer growth.

Desired and destruction.

#### 1052

MORPHOLOGICAL AND FUNCTIONAL CYTODIFFERENTIATION OF THE DUNNING PROSTATIC ADENOCARCINOMA.

Nono Hayashi", Yoshiki Sugimura, Juichi Kawamura and Gerald R. Cunha Tsu, Mie, Japan and San Francisco, CA. (Presentation by Dr. Hayashi)

Mesenchyme plays a critical role in inducing epithelial morphogenesis and cytodifferentiation during normal prostatic development. Likewise, mesenchyme can induce completely new morphological and functional expression in normal adult epithelial cells. The responsiveness of normal adult epithelial cells to mesenchymal inductors has led to the observations that seminal vesicle mesenchyme (SVM) can induce the Dunning prostatic adenocarcinoma epithelial cells (DT-E) to differentiate with a concomitant

reduction in tumorigenesis.

Previous SVM+DT-E experiments utilized small 0.5 mm DT fragments, in the present experiments DT-E was purified from DT cell suspensions by Percoll gradient centrifugation and recombined with rat neonatal SVM. The resultant tissue recombinants (SVM-DT-E) were grafted under renal capsules of male athymic mice and grown for 2 months.

Under these conditions SVM induced the DT-E to exhibit a highly

differentiated secretory phenotype by forming ducts fined with tall columnar epithelial cells or large clear cells with pale cytoplasm. Whereas control grafts of the DT by itself formed large tumors (> 1000 mm<sup>3</sup>) during the 2 month growth period, the SVM-DT-E recombinants survived but remained small (< 30 mm<sup>3</sup>). The loss of turnorigenicity in SVM+DT-E recombinants was associated with a striking reduction of epithelial <sup>3</sup>H-thymidims labelling index in SVM-DT-E recombinants (DT : 8.31%, SVM+DT-E recombinants : 0.80%). Differences in secretory proteins were also observed in SVM+DT-E recombinants in comparison to DT. Examination of testosterone metabolism in grafts of DT versus SVM+DT-E recombinants by thin tayer chromatography with [1]. 26-3H] tostosterone revealed that the major metabolite in DT-E was 44-Adlone, otherwise that of epithelium from SVM-DT-E recombinants was DHT similar to dersal prostate and seminal vesicle epithelium.

The above SVM-induced changes in OT-E suggest the possibility that emerging or established carcinomas might be regulated at least in part by their connective tissue microenvironment